TST Update

Dr. Judith Dahmann

15 April 1998

Topics

- **Events Calendar**
- **Supporting SW Development**
- **Federate Testing**
- **External Events**
- **HLA Education/Outreach**

Events Calendar

11 Feb	AMG-23
13 Feb	OM Tech Exchange
3-6 Mar	NATO SGMS and MNWG, The Hague
8 Mar	Pre-SIW HLA Tutorials, Orlando
9-13 Mar	SIW, Orlando
27 Mar	Ctr for Defence Analysis (CDA) Synthetic Environment Capability Area Workshop, UK
31 Mar	FEDEP Tech Exchange
25 Mar	National Missile Defense System Engineer Modeling and Simulation Advisory Panel (NMD SEMSAP)
1-3 Apr	OMG Meeting, Manchester, UK
15-16 Apr	AMG-24
23 Apr	TNO Tech Exchange
20-24 Apr	Hands-On Training at European Space Agency
27 Apr	Pre-ITEC Tutorials, Lausanne, Switzerland
28-30 Apr	International Training and Education Conference (ITEC)
1-3 June	DMSO Industry Days, Tyson's Corner, VA
10-11 June	AMG 25

Supporting SW Development

- **Development of supporting software is on track**
  - **Runtime infrastructure (RTI) -- released March 27**
  - **Object model support tools including -- released March 17**
    - **Object Model Development Tool (OMDT), Object Model Library (OML) and Object Model Data Dictionary (OMDD)**
- **Support and training for these new releases is in place**
  - **Hands-on training for 1.3 will be phased in**
- **Specific discussion of these will be included in the AMG agenda under RTI IPT and OM Update**

New Tool Development

- **Development of additional tools has been initiated**
  - **Continuation of same basic strategy**
    - **DMSO develops initial releases, supported by open data standards to promote commercial developments**
    - **Development and testing will be done with alpha testing groups**
    - **Based on these results tools assessed to be generally useful and supportable will be generally released**
  - **New focus on tools to support later phases of the federation life cycle**
    - **Current tools focus largely on OM development**
    - **New tools focus on**
      - **Federation execution planning and verification**
      - **Runtime management and data collection**
  - **Development efforts just beginning; presentation on tools will be included in AMG agendas as tool work progresses**

New Tool Development

- **Federation execution planning and verification tools**
  - **Federation Execution Planners Workbook (FEPW)Tool - VTC**
    - **Automated support for the completion and exchange of completed FEPWs**
    - **Supported by an FEPW data interchange format (DIF)**
  - **Federation Verification Tool - GTRI**
    - **Tools to assess federate use of FOM in accordance with federation plans**
    - **Will use OMT DIF and (FEPW DIF)**
    -

    TECHNICAL EXCHANGE on these tools as part of AMG24
    -

- **Federation execution runtime tools**
  - **Federation Management Tool - MITRE/MaK**
    - **Productization of JTC federation management tool**
  - **Federation Data Collection Tool - VTC**
    - **SBIR phase two**
    - **Builds on lessons learned from STOW CDI**
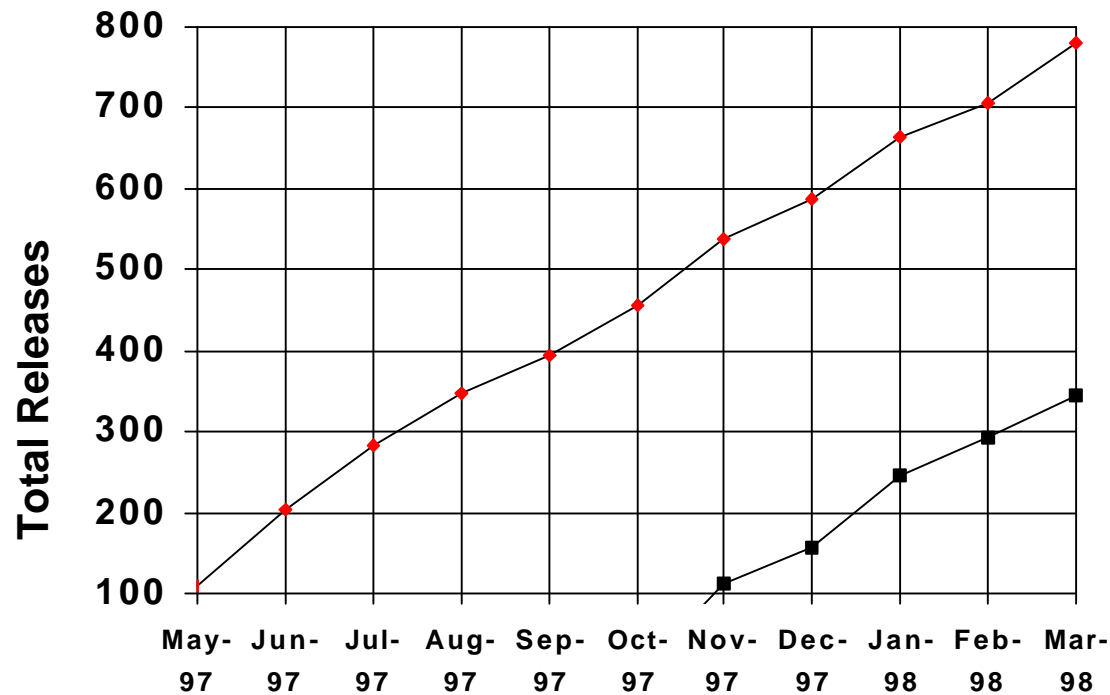
RTI 2.0 / 1.3c

- **RTI 2.0/1.3c development is on track**
  - **SAIC is developer; Steve Bachinsky, lead**
  - **STRICOM contract; Susan Harkrider/Rob Miller -- POCs**
  - **Work was initiated as part of RTI design contract in January 1997**
  - **Development effort initiated in September 1997**
  - **Monthly review sessions; mid-term IPR held in March**
  - **SW release targeted for December 1998; will address specification 1.3**

Plans for Commercial Tools Information Exchange

- **Increasing commercial development of HLA tools**
- **SBIRs have stimulated interest; DIS tool developers are increasingly releasing tools for HLA; new developments are appearing**
- **DoD is committed to provide needed information to support commercial developers**
- **Information exchange session with developers is being planned**
    - **Purpose**
        - **to review DMSO development plans and identify ways that commercial developers can obtain information needed to support their commercial ventures**
        - **To be held 30 June,in Alexandria**
    - **POCs**
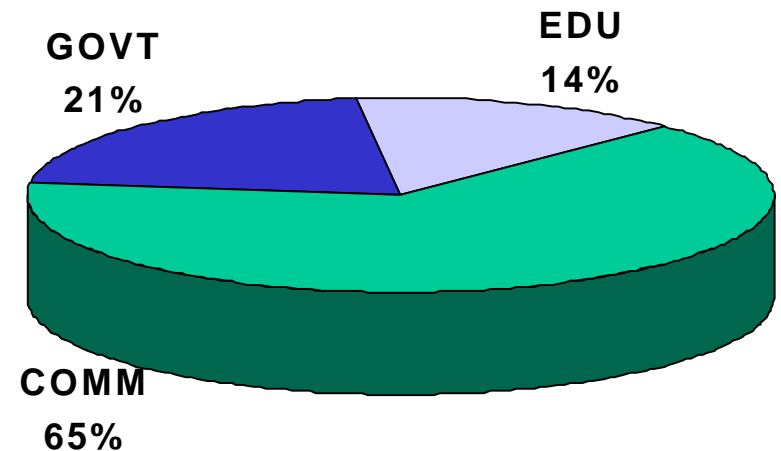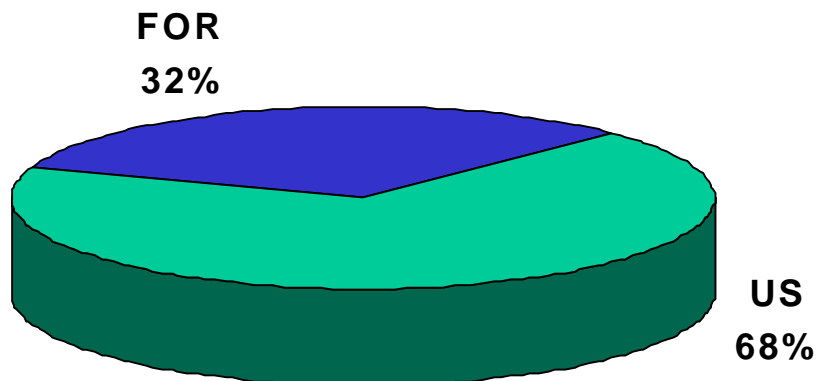   - **Bob Lutz, lead; Penny Grammer, support**

HLA Software Releases
through March 1998

RTI - 779

OM Tools - 346

FOR 32%

US 68%

GOVT 21%

EDU 14%

COMM 65%

Federate Testing

- **Federate Testing Team**
  - **GTRI (Process and Tool Development), and ABTech (Operational Testing)**
- **Federate testing began October 31**
  - **Turnkey Test Management System; demonstrated here at AMG-23 at noon and during late afternoon technical exchange time period**
  - **Work is underway to implement support for RTI 1.3**
  - **3 systems have completed testing; 9 systems in progress**
- **Updates for Specification 1.3 in progress**
  - **Updated Compliance Checklist (1.3) draft on the web**
  - **Updated procedures (IF Spec and OMT Spec) in review**
  - **Updated tools in testing**
    - **Testing for Specification 1.3 will be available in June**
    - **Test cases in process; federates in need of early testing contact Margaret Loper, GTRI**

HLA Help Desk

- **MSOSA cell for HLA has been operational since May**
- **Focal point for inquiries to DMSO on HLA**
- **hla@msis.dmso.mil e-mail goes to the HLA cell**
  - **responds directly**
    - **general inquiries**
  - **refers**
    - **training requests**
    - **policy questions**
    - **RTI-specific technical questions**
  - **logs and tracks**
- **New version of HLA FAQs in draft based on inquiries to the help desk; will be added to home page**

HLA Help Desk Activity Report
through March 1998

Category	Total Calls (Mar)	Total Calls (to date)	Total Closed (to date)	Total Open (to date)	Foreign Requests (Mar)	Foreign Requests (to date)
HLA						
-Basic Information	33	286	280	6	8	46
-Documentation	0	34	34	0	2	7
-Compliance Query	3	26	26	0	0	1
-Testing	4	18	18	0	1	3
Forwarded Queries						
-RTI/SW	44	343	343	0	8	78
-Policy	0	12	12	0	0	0
-Training	0	52	52	0	0	4
-Web Page	0	23	23	0	0	4
TOTAL						

HLA Education/Outreach

- **Integrated training/outreach program continues**
  - **To request or register for a scheduled training event go to the DMSO HLA home page at http://hla.dmso.mil under the topic "HLA Education and Training"**
  - **Holding a series of 'Regional Training Events' at different locations throughout the coming year**
- **"Hands-on" practicum classes scheduled approximately twice a month for the coming year**
- **Small number of on-site sessions to support specific communities**
  - **European Space Agency to host training in April**
  - **Plans for industry oriented courses in response to SBA inquiries**
- **HLA module now a part of the DMSO Staff Officer Course**
- **Training and education in conjunction with professional/standards organizations**
  - **ITEC Europe in April**

Training Schedule

1998 Regional Training Events

Southwest	5-6 Jan	Nellis AFB (completed)
Southeast	19-20 Feb	Orlando, FL (completed)
Mid Atlantic	26-27 Mar	Alexandria, VA (completed)
West	21-22 Apr	Menlo Park, CA
Northeast	19-20 May	Boston, MA
Midwest	25-26 Jun	Wright-Patterson AFB
Southwest	29-30 Jul 98	Ft. Leavenworth, KS
West	5-6 Aug 98	Seattle, WA
Southeast	9-11 Sep 98	Atlanta, GA
West	20-21 Oct 98	San Diego, CA
Southwest	18-19 Nov 98	Colorado Springs, CO

Currently seeking hosts for future training events; contact Mike Lightner (mlightner@aegisrc.com) if you are willing to host an event.

Additional Training Modules Introduced

- **New training modules have been introduced which provide a more detailed look at topics of interest to HLA users**
  - Lecture presentation format; half day sessions each
  - Based on feedback from current training efforts
- **Topics being addressed**
  - Adapting your simulation to use HLA
  - Using automated tools to develop HLA object models
  - HLA testing
- **First two modules were 'debuted' at SIW; very positive response from 146 persons attending**
- **First offering of HLA Testing Module scheduled for 16 April in Alexandria; next 12 May at UCF, Orlando**
- **Organizations interested in hosting additional sessions contact Mike Lightner (mlightner@aegisrc.com)**

Academic Outreach Effort Initiated

- **Work has begun on an academic outreach program**
  - **Katherine Morse, POC**
- **Working cooperatively with Society for Computer Simulation McLeod Institute of Simulation Sciences**
- **Develop community of academics interested in HLA building on current members of the HLA community**
- **Create 'curriculum packages' tailoring HLA materials and tools for academic users**
  - **Distribute and assess utility of these packages on an ongoing basis**
  - **Update based on feedback and new HLA developments**
- **Participate in NSF sponsored workshop "Teaching Simulation to Computer Science Majors," July, Washington, DC**

Simulator Community Outreach

- **In response to Transition Issues Team request, DMSO will be initiating focused outreach activities to the simulator community, with an initial emphasis on aircraft simulators**

- **Chris Bouwens will be the POC for this activity; will complement work underway with NAWC-TSD and plans for participating in AIAA conference in Boston in August**

- **Will include some technical exchanges with the simulator community, both government and industry**

- **AMG will be invited participate**

HLA Specification Update

- **Full specification (draft 10) including DIFs and APIs was posted to web last week**
- **Final inputs have been received and a final version will be released for IEEE public review on 20 April**
- **APIs are being supported by binding developments; any implementation issues (no functional changes) encountered in these developments will be incorporated as revisions to the specification**
- **Coordinated by Reed Little**